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(21) Application number: **60105647**(71) Applicant: **TAKEDA CHEM IND LTD**(22) Date of filing: **16.05.85**(72) Inventor: **HATANAKA CHITOSHI**  
**KAWAKAMI YOSHIYUKI****(54) PRODUCTION OF CYTOSINE NUCLEOSIDE****(57) Abstract:**

**PURPOSE:** To obtain the titled compound useful as a medicine or its synthetic intermediate, in high yield, by reacting uridine with a hexaalkyldisilazane and an acid amide in a closed vessel, thereby carrying out the amination of the 4-site of uridine under low pressure at a stroke.

**CONSTITUTION:** The objective compound can be produced by reacting (A) uridine which may be protected at the OH group with (B) a hexaalkyldisilazane [preferably the compound of formula ( $R^1$  is alkyl), especially hexamethyldisilazane and (C) an acid amide {e.g. the compound of formula  $R^2CONHR^3$  [ $R^2$  and  $R^3$  are H, (substituted) alkyl, aralkyl, aryl or alkenyl], e.g. acetamide, etc.} in a closed vessel preferably at  $90W170^\circ C$  and  $1W25kg/cm^2$  pressure, and if necessary, removing the protecting group. The amounts of the components B and C are  $2W10mol$  and  $0.1W3mol$  per  $1mol$  of the component A, respectively.



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